

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	DAMAGE ASSESSMENTS FOR PREVIOUSLY DOCUMENTED CULTURAL RESOURCES	JURISDICTIONS:	DOE, FWS
PART E LINE ITEM:	C-1a Cultural Resources Damage Assessment - Fire	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

<p>A. General Description: Within 60 days of control of the fire, complete a cultural resource field inventory and evaluation of previously recorded and documented sites within the area burned by the 24 Command Fire in order that each jurisdiction may develop a condition assessment for cultural resource compliance and rehabilitation purposes.</p>	
<p>B. Location (Suitable) Sites: Approximately 190 sites (150 on FWS, 40 on DOE) are recorded within the burned area. Information specific to the location and description of cultural resources is sensitive and exempt from public disclosure under the Archaeological Resources Protection Act of 1979 and the Freedom of Information Act. The Department of Energy and US Fish and Wildlife Service maintain their own cultural resource records, and may issue detailed written descriptions of sites to be evaluated by field personnel, including site descriptions, GPS and/or TSR, and cross-referenced to agency maps.</p>	
<p>C. Design/Construction Specification (number and describe each task):</p> <ol style="list-style-type: none"> 1. Visit and evaluate each recorded site within the perimeter of the burned area and complete the optional form "24 Command Fire Emergency Post-Fire Site Inspection Record" (Appendix V). These evaluations should be completed within 60 days of the control of the fire, unless extended by the affected agency as authorized by a specific time waiver approved by NIFC. 2. Site damage assessments should include post fire effects such as wind deflation, undercutting and loss of integrity, as well as wind-aided burial or erosion of surface features, increased visibility and vulnerability to looting. 3. Develop mitigation, rehabilitation or monitoring recommendations, measures and cost estimates for each site that may be threatened by burial, destabilization, exposure to the public, or erosion consequent to fire effects. 4. Initiate consultation with Tribal governments, Native American Indian communities and SHPO as required under 36 CFR 800. 5. Implement the individual site treatments through a supplemental specification for Cultural Resources General Rehabilitation and Preservation Techniques for Sites. 	
<p>D. Purpose of Treatment Specification: This action is necessary to meet legislative mandates under Section 106 of the National Historic Preservation Act and 36 CFR 800.</p>	

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
DOE Principal Investigator 2 days @\$1062/day	\$2,124
DOE Crew Chief 13 days @ \$850/day	\$11,050
DOE Crew 16 days @ \$400/day	\$6,400

DOE Tribal consulting, oral history, other consulting parties 10 days @ \$350/day	\$3,500
DOE Subtotal	\$23,070
FWS Principal Investigator 6 days @ \$1062/day	\$6,372
FWS Crew Chief 40 days @ \$850/day	\$34,000
FWS Crew 60 days @ \$400/day	\$24,000
FWS Tribal consulting, oral history, other consulting parties 30 days @ \$350/day	\$10,500
FWS Subtotal	\$74,872
TOTAL PERSONNEL SERVICE COST	\$97,942
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
DOE duplication of site records and files	\$2,500
FWS materials and supplies	\$2,000
TOTAL MATERIALS AND SUPPLY COST	\$4,500
TRAVEL COST (Personnel @ Rate X Round Trips X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Site	\$539	190	\$102,442	EFR, OP/O	P, C
FY 2						
FY 3						
TOTAL	Site	\$539	190	\$102,442	EFR, OP/O	P, C

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	P, M
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Appendix I, Cultural Resource Assessment.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
DOE	40	\$25,570
FWS	150	\$76,872
TOTAL COST	190	\$102,442

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**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	INVENTORY AREAS IMPACTED BY FIRE SUPPRESSION ACTIVITIES FOR POTENTIAL DAMAGE TO CULTURAL RESOURCES	JURISDICTIONS:	DOE, FWS
PART E LINE ITEM:	C-1b Cultural Resource Damage Assessment-Suppression	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

<p>A. General Description: Conduct a cultural resources field inventory of locations disturbed by the fire suppression effort, or with the potential to be impacted by rehabilitation activities, to identify cultural resource sites (prehistoric, historic, traditional and cultural) that were or may be affected by these activities.</p> <p>B. Location (Suitable) Sites: All dozer and hand line, staging areas, safety and deployment zones, helispots and other disturbed ground created by the fire suppression effort. All areas to be potentially affected by rehabilitation activities (e.g., mechanical seeding, erosion control structures, etc.). Maps of treatment areas may be found in Appendix III. Map locations of previously-recorded cultural resources are exempt from the Freedom of Information Act and are available to qualified personnel at the appropriate federal agency or from Tribal governments</p> <p>C. Design/Construction Specification (number and describe each task): Conduct archaeological field inventory within areas disturbed by suppression activity or to be disturbed by rehabilitation work at a level commensurate with the Secretary of Interior's Standards and Guidelines (FR48, No. 190, September 29, 1983, 44716 – 44740) for field personnel and reporting standards.</p> <p>1. Consult with affected agencies, tribal governments and interested parties as required under 36 CFR 800.12(b)(2). Consulting parties are identified under Appendix II, Compliance Documentation.</p> <p>2. Undertake cultural resource field inventories. Do complete inventory of all suppression effects in the vicinity of recorded cultural resources. Due to the nature of the perimeter lines, conduct a sample inventory of approximately 25% of the dozer lines around the perimeter of the fire. Undertake additional dozer line inventory as determined by the results of the sample inventory.</p> <p>3. Complete damage assessment forms (See Appendix V, Cultural Resource Damage Assessment Form) and photo-document, map and GPS all cultural resources damaged by fire suppression activities, as well as those that may potentially be affected by rehabilitation activities.</p> <p>4. Prepare individual site treatment plans appropriate to the significance of the resource and level of disturbance or damage. Archaeological sites damaged by hand line, dozer line and other equipment use, staging areas and other suppression-related activity will require a complete evaluation and damage assessment. (See Appendix I, Cultural Resource Assessment, Rehabilitation Methodology)</p> <p>5. Consult with parties identified under (1) above, and submit a supplemental cultural resource treatment for implementation and completion of each damaged site within 60 days of control of the fire.</p> <p>D. Purpose of Treatment Specification: Identification, evaluation, protection and mitigation, as necessary, of adverse effects to cultural resources.</p>	
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II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
DOE Principal Investigator \$106/hr for 4 hrs	\$424
DOE Crew Chief \$85/hr for 52 hrs	\$1,700
DOE Crew \$40/hr for 40 hrs	\$1,600
DOE Tribal consultation/interviews \$350/day for 4 days	\$1,400
DOE Subtotal	\$5,124

FWS Principal Investigator \$106/hr for 2 hrs	\$212
FWS Crew Chief \$85/hr for 26 hrs	\$850
FWS Crew \$40/hr for 20 hours	\$800
FWS Tribal consultation/interviews \$350/day for 4 days	\$1,400
FWS Subtotal	\$3,262
TOTAL PERSONNEL SERVICE COST	\$8,386
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST (Personnel @ Rate X Round Trips X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Miles	\$559.07	15	\$8,386	F	P
TOTAL	Miles	\$559.07	15	\$8,386		

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	F, C
4. Estimate based upon government wage rates and materials cost.	
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services

M = Materials/Supplies

T = Travel

C = Contract

F = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Appendix I, Cultural Resources Assessment.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
DOE	9	\$5,124
FWS	6	\$3,262
TOTAL COST	15	\$8,386

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**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	ASSESS AND REHABILITATE DOZER LINE AND GRADED ROADS	JURISDICTIONS:	DOE, FWS
PART E LINE ITEM:	F-1 Hand line - Dozer Line Rehab	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

- A. General Description:** Rehabilitation of suppression line is necessary to protect habitats from noxious weed infestation, visual intrusion on the landscape and to minimize fragmentation of ecological areas. Monitoring of suppression line rehab is necessary to determine the need for future exotic plant mitigation needs. Dozer lines within the burned area on lands managed by FWS and DOE will be treated according to methods described in the Hanford Site Biological Resource Management Plan (HSBRMP, 1996). Private lands to the west end of the fire will not be rehabilitated at the request of the private land owner. Dozer line along Hwy #225 will be treated in the same manner as HSBMP Category 1 sites at the request of Bureau of Land Management and Washington Department of Fish and Wildlife. Soils are currently too powdery for immediate rehabilitation therefore treatments should be delayed until fall of 2000 until soil conditions and growing conditions are favorable to maximize success of rehabilitation actions.

There are five types of suppression line to be considered:

Graded Roads: Existing roads which were graded to act as suppression line.

Dozer Line on Private Lands: Dozer line built on private lands on the west end of the fire.

Dozer Line on State/BLM: Fire break built along Hwy #225.

HSBRMP Category 1: Fire break built on FWS or DOE lands in areas which require no restoration, but which may receive exotic plant mitigation.

HSBRMP Category 3: Dozer line built on FWS or DOE lands which requires rehabilitation.

- B. Location (Suitable) Sites:** Within the perimeter of the burned area. Refer to GIS data layer titled Suppression Impacts

- C. Design/Construction Specification (number and describe each task):**

1. Graded Roads: Three road sections in the Snively springs area, off of road #118 require revegetation and noxious weed monitoring where a push berm was created as a result of the road being graded. Should noxious weeds be identified along the graded road edge, the application of herbicide, plant pulling or cultural remediation treatments should occur. See specification for noxious weed monitoring and native plant reseeding.
2. HSBMP Category 1, Non-Habitat of Concern, and Dozer Line on State and BLM lands: Noxious weed monitoring should occur in these areas. If noxious weeds are identified along the fire breaks, the application of herbicide, plant pulling or cultural remediation treatments should occur in accordance with agency IPM practices. See specification for noxious weeds.
3. HSBMP Category 3, Late -Successional Shrub-Steppe: Three areas identified on the Suppression Impacts GIS data layer require rehabilitation to a more natural condition. On DOE lands a four wheel drive tractor with a weighted drag or a ganno box attachment should drag the suppression lines and push berms to reduce the berm to contour. A drill seeder should apply native plant seed to meet HSBMP specifications. If noxious weeds are identified along the dozer line, the application of herbicide, plant pulling or cultural remediation treatments should occur. On FWS lands a 20 person hand crew should pull the berm and rake the disturbed area to contour. Site selected plant material should be used to rehabilitate the disturbed area. See specification for native plant collection.

- D. Purpose of Treatment Specification:** Specification is intended to aid DOE and FWS staff in rehabilitating suppression lines within the fire area.

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
(FWS)20 man hand crew@ 3,000/day X 1/day X 1	\$3,000
TOTAL PERSONNEL SERVICE COST	

EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST (Personnel @ Rate X Round Tips X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
(DOE)4x4 tractor with weighted drag @ \$200/hour X 16 X 1	\$3,200
(DOE)Drill seeder @ \$150/hour X 16 X 1	\$2,400
TOTAL CONTRACT COST	\$5,600

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Acres	\$2,150	4	\$8,600	F	C
FY 2						
FY 3						
TOTAL	Acres	\$2,150	4	\$8,600	F	C

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	C
2. Documented cost figures from similar project work obtained from local agency sources.	C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Operations Assessment, Appendix I.
 See fire suppression impacts map, Appendix III.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
DOE	3 acres	\$6,450
FWS	1 acre	\$2,150
TOTAL COST	4 acres	\$8,600

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**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	REPAIR FIRE SUPPRESSION DAMAGED FENCE	JURISDICTIONS:	DOE, FWS
PART E LINE ITEM:	F-3a Infrastructure Repair/Replace - Fence	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

A. General Description:	Fences around the perimeter of the fire and on Hwy #240 were cut to allow access by fire suppression vehicles. These fence cuts need to be repaired to protect these lands from trespass. Many of the fence cuts have been repaired along Hwy #240, but the potential for undocumented cut fence location exists. Agency staff should assess perimeter fence and make repairs as needed.
B. Location (Suitable) Sites:	All FWS/DOE lands located in the fire area.
C. Design/Construction Specification (number and describe each task):	Fence repairs shall be done in accordance with USFWS and DOE specifications. 1. Use agency personnel to survey perimeter fence and repair as needed.
D. Purpose of Treatment Specification:	Specification is intended to aid DOE and FWS staff in securing the fenced perimeter of their associated lands within the fire area.

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
(DOE/FWS)GS-9 @ \$200/day X 40 days X 1	\$8,000
TOTAL PERSONNEL SERVICE COST	\$8,000
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
(DOE/FWS)Fencing plyers @ \$15 X 4 X 1	\$60
Fence stretchers @ \$30 X 4 X 1	\$120
roll of smooth wire @ \$42 X 4 X 1	\$168
T-Posts @ \$3/each X 50 X 1	\$150
TOTAL MATERIALS AND SUPPLY COST	\$498
TRAVEL COST (Personnel @ Rate X Round Trips X Fiscal Yars = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	

CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Task	\$4,249	2	\$8,498	F	P
FY 2						
FY 3						
TOTAL	Task	\$4,249	2	\$8,498	F	P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	M
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	P
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Operations Assessment, Appendix I.
 See fire suppression impacts map, Appendix III

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
DOE	1	\$4,249
FWS	1	\$4,249
TOTAL COST	2	\$8,498

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	REMOVE RETARDANT FROM LIGO TUNNEL WITH POWER WASHER	JURISDICTIONS:	DOE
PART E LINE ITEM:	F-3b Infrastructure Repair/Replace - LIGO	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

<p>A. General Description: Remove retardant stain from LIGO tunnel with contract mobile power washer.</p> <p>B. Location (Suitable) Sites: LIGO facility located on DOE land north of Highway 240</p> <p>C. Design/Construction Specification (number and describe each task):</p> <ol style="list-style-type: none"> 1. Remove the retardant from the LIGO south tunnel with an industrial mobile power washer. 2. Quality control will be monitored by DOE employees at the LIGO site and the contact will be Otto Matherny. <p>D. Purpose of Treatment Specification: Specifications are intended to aid DOE in restoring the LIGO tunnels to a prefire condition.</p>

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST (Personnel @ Rate X Round Tips X Fiscal Yars = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
mobile power washer @ \$700/day X 1 day X1	\$700
TOTAL CONTRACT COST	\$700

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Task	\$700	1	\$700	F	C
FY 2						
FY 3						
TOTAL	Task	\$700	1	\$700	F	C

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	C
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Operations Assessment, Appendix I.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
DOE	1	\$700
TOTAL COST	1	\$700

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	REMOVE BURNED DOE FIRE ENGINE FROM FWS LANDS	JURISDICTIONS:	DOE
PART E LINE ITEM:	F-5 Suppression Equipment Removal/Disposal	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

<p>A. General Description: A DOE type VI fire engine was burned over in the 24 Command fire. The vehicle is disabled and remains within the fire perimeter. The vehicle needs to be removed from FWS lands following the fire incident investigation. If soils under the engine are contaminated by fuels and oil, an amendment to this specification should be written to remediate those contaminated soils.</p> <p>B. Location (Suitable) Sites: The vehicle is located on a small ridge approximately 1.0 mile South of the point of origin of the fire. The disabled vehicle is located in Township 12 North, Range 24 East, Section #2, and the approximate Universal Transverse Mercator location is 5.158.713 north, by 287.943 east, zone 11. The vehicle is not on an established road and tow truck access is limited.</p> <p>C. Design/Construction Specification (number and describe each task):</p> <ol style="list-style-type: none"> 1. Remove one disabled full-size pick-up truck. (Helicopter removal was considered but not thought to be cost effective due the proximity to a two track road) 2. A route of ingress and egress should be determined by U.S. Fish and Wildlife Service staff and be made part of the removal contract. 3. DOE will need to determine where the vehicle should be taken. Contact Jerry Keelin for information regarding this matter. <p>D. Purpose of Treatment Specification: Specifications are intended to aid USFWS staff in the preparation of contract specifications and a scope of work for the removal of one disabled vehicle from ALE lands.</p>	
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II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST (Personnel @ Rate X Round Tips X Fiscal Yars = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	

CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
4x4 flatbed tow truck @ \$500/job X 1	\$500
TOTAL CONTRACT COST	\$500

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Task	\$500	1	\$500	F	C
FY 2						
FY 3						
TOTAL	Task	\$500	1	\$500	F	C

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	C
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Operations Assessment, Appendix I.
 See fire suppression impacts map, Appendix III.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
DOE	Task	\$500
TOTAL COST	Task	\$500

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	INVASIVE PLANT SPECIES MONITORING	JURISDICTIONS:	DOE, FWS
PART E LINE ITEM:	M-1a Monitoring: Invasive Plant Species	FISCAL YEAR (list each year):	2000, 2001

I. WORK TO BE DONE

A. General Description:	Monitor vegetative recovery within the burned area in order to detect the invasion of invasive/noxious weeds on roads, dozerlines, handlines and other disturbed areas within the 24 Command fire area.
B. Location (Suitable) Sites:	Refer to Appendix III-Suppression Treatment Map and Noxious Weed Map for potential survey locations.
C. Design/Construction Specification (number and describe each task):	<p>Conduct short-term monitoring (2 years) on areas disturbed within the fire and on historic populations of known noxious weed populations to determine spread of invasive species and noxious weeds.</p> <ol style="list-style-type: none"> Monitoring protocols will be established by each jurisdiction and will be implemented in accordance with current management plans. Photo-document and GPS new weed occurrences within disturbed lands. Initiate Agency approved control measures on new weed occurrences where monitoring demonstrates the establishment or expansion of known weed populations that threaten the natural regeneration of native vegetation or establishment of effective ground cover. Prepare final report of findings for submission to NIFC for inclusion in fire effects data base.
D. Purpose of Treatment Specification:	Protect the ecological integrity and site productivity of shrub-steppe plant communities within the ALE and DOE lands in accordance with established mission statements and management plan guidelines.

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
USFWS- GS-9 Botanist/Vegetation Specialists x \$133/day X 16 weeks/year X 2 Fiscal Years	\$21,280
DOE- GS-9 Botanist/Vegetation Specialists x \$133/day X 16 weeks/year X 2 Fiscal Years	\$21,280
TOTAL PERSONNEL SERVICE COST	\$42,560
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
FWS- Film Purchase and processing 20 rolls X \$15 / roll	\$300
DOE- Film Purchase and processing 20 rolls X \$15 / roll	\$300
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	\$600
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
FWS- Rebar, Office Supplies (Paper, Disks, etc.)	\$200
DOE- Rebar, Office Supplies (Paper, Disks, etc.)	\$200
TOTAL MATERIALS AND SUPPLY COST	\$400

TRAVEL COST (Personnel @ Rate X Round Tips X Fiscal Years = Cost/Item):	COST/ITEM
FWS -100 miles/day x 5 days per week x 16 weeks x .33/mile x 2 years	\$5,280
DOE -100 miles/day x 5 days per week x 16 weeks x .33/mile x 2 years	\$5,280
TOTAL TRAVEL COST	\$10,560
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Surveys	\$285.19	160	\$45,630	EFR, OP/O	P
FY 2	Surveys	\$285.19	160	\$45,630	EFR, OP/O	P
TOTAL	Surveys	\$285.19	320	\$91,260	EFR, OP/O	P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	P, M, T
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Appendix III, Suppression Impacts and Noxious Weed Maps. Please refer to Vegetation Assessment, Appendix I.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
USFWS	160	\$45,630
DOE	160	\$45,630
TOTAL COST	320	\$91,260

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	INVENTORY MORTALITY AND MONITOR RECOVERY OF MICROBIOTIC SOIL CRUST	JURISDICTIONS:	DOE, FWS
PART E LINE ITEM:	M-1b Monitoring: Microbiotic Soil Crust	FISCAL YEAR (list each year):	2000, 2001

I. WORK TO BE DONE

<p>A. General Description: Inventory microbiotic soil crust (MSC) mortality and monitor recovery within the burn area to determine the degree and extent of mortality. The inventory and monitoring should be conducted during the first three years and the information made available to DOE/USFWS to determine whether or not mitigation action is necessary. Mitigation would be to inoculate dead zones with microbiotic soil specimens composed of similar species collected from an unburned area with the same soil types.</p> <p>B. Location (Suitable) Sites: Monitoring plots should be placed randomly throughout the burn area as specified by the monitoring plan using appropriate existing plot locations and any identified new plots. The highest priority areas for monitoring and possible treatment are on Quincy (Rupert), Hezel, and Koehler soils which are the most prone to wind erosion.</p> <p>C. Design/Construction Specification (number and describe each task):</p> <ol style="list-style-type: none"> 1. Obtain the services of a specialist in MSC research to design a MSC mortality inventory study and monitoring plan. 2. Implement the inventory and monitoring plan. 3. Based on the results of the inventory, the management agencies will determine if mitigation is necessary and if so, to what degree and by what method. Any mitigation will be submitted as a supplemental funding request. <p>D. Purpose of Treatment Specification: To stabilize soil types prone to wind erosion which can cause dust storms on downwind roads creating a public safety hazard. To determine the degree and extent of MSC mortality, natural recovery and need the to inoculate burn areas with microbiotic soil specimens. To increase knowledge and understanding of the effects of fire on MSC.</p>
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II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
DOE - GS-11/01 @ \$20.13/hr x 240 hrs x 1 year =	\$4,830
FWS - GS-11/01 @ \$20.13/hr x 240 hrs x 1 year =	\$4,830
DOE - GS-11/01 @ \$20.13/hr x 160 hrs x 1 year =	\$3,220
FWS - GS-11/01 @ \$20.13/hr x 160 hrs x 1 year =	\$3,220
TOTAL PERSONNEL SERVICE COST	\$16,100
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
DOE - Vehicle @ \$0.33/mi x 100 mi/day x 30 days x 1 year =	\$990
FWS - Vehicle @ \$0.33/mi x 100 mi/day x 30 days x 1 year =	\$990
DOE - Vehicle @ \$0.33/mi x 100 mi/day x 20 days x 1 year =	\$660
FWS - Vehicle @ \$0.33/mi x 100 mi/day x 20 days x 1 year =	\$660
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	\$3,300

MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST (Personnel @ Rate X Round Trips X Fiscal Yars = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
DOE - Design MSC mortality inventory and recovery monitoring plan	\$3,750
FWS - Design MSC mortality inventory and recovery monitoring plan	\$3,750
TOTAL CONTRACT COST	\$7,500

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Plan	\$7,500	1	\$7,500	EFR, OP/O	P, C
FY 1	Survey	\$11,640	1	\$11,640	EFR, OP/O	P
FY 2	Survey	\$7,760	1	\$7,760	EFR, OP/O	P
TOTAL		\$26,900	1	\$26,900		

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	P
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Appendix I, Soil and Watershed Assessment.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
FWS	1	\$13,450
DOE	1	\$13,450
TOTAL COST		\$26,900

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	THREATENED & ENDANGERED PLANT SPECIES MONITORING	JURISDICTIONS:	DOE, FWS
PART E LINE ITEM:	N-1a Protection of T&E Species: Plant	FISCAL YEAR (list each year):	2000, 2001

I. WORK TO BE DONE

A. General Description:	Monitor six previously identified Threatened and Endangered (T&E) plant species to determine fire effects on these species and their post-fire recovery potentials.
B. Location (Suitable) Sites:	Refer to Appendix III- T&E Plant Species map for potential survey locations.
C. Design/Construction Specification (number and describe each task):	<p>Conduct short-term monitoring (2 years) on known locations of <i>Astragalus columbianus</i>, <i>Cryptantha interrupta</i>, <i>Erigeron piperianus</i>, <i>Nicotiana attenuata</i>, and <i>Astragalus conjunctus var novum</i> within the fire area to determine fire effects on these species. Surveys should be conducted by both jurisdictions in a cooperative manner so that:</p> <ol style="list-style-type: none"> 1. Monitoring protocols will be established and will be implemented in accordance with current management plans. 2. Photo-document and GPS T&E plant species occurrences within the fire area. 3. Prepare final report of findings for submission to NIFC for inclusion in fire effects (FEIS) data base.
D. Purpose of Treatment Specification:	Determine fire effects on known Federally and State listed T & E species of shrub-steppe plant communities within the ALE and DOE lands in accordance with established management plan guidelines. This treatment is consistent with DOI BAER policy for stabilization and prevention of unacceptable degradation of critical natural resources.

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
FWS-GS-11 Botanist/Vegetation Specialists x \$161/day X 12 weeks/year X 2 Fiscal Years	\$19,320
DOE-GS-11 Botanist/Vegetation Specialists x \$161/day X 12 weeks/year X 2 Fiscal Years	\$19,320
TOTAL PERSONNEL SERVICE COST	\$38,640
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
FWS-Film Purchase and processing 20 rolls X \$15 / roll	\$300
DOE-Film Purchase and processing 20 rolls X \$15 / roll	\$300
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	\$600
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
FWS-Rebar, Office Supplies (Paper, Disks, etc.)	\$200
DOE -Rebar, Office Supplies (Paper, Disks, etc.)	\$200
TOTAL MATERIALS AND SUPPLY COST	\$400

TRAVEL COST (Personnel @ Rate X Round Trips X Fiscal Years = Cost/Item):	COST/ITEM
FWS-100 miles/day x 5 days per week x 12 weeks x .33/mile x 2 years	\$3,960
DOE -100 miles/day x 5 days per week x 12 weeks x .33/mile x 2 years	\$3,960
TOTAL TRAVEL COST	\$7,920
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Surveys	\$198.17	120	\$23,780	EFR, OP	P
FY 2	Surveys	\$198.17	120	\$23,780	EFR, OP	P
FY 3						
TOTAL	Surveys	\$198.17	240	\$47,560	EFR, OP	P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

4. Estimate obtained from 2 - 3 independent contractual sources	
5. Documented cost figures from similar project work obtained from local agency sources.	
6. Estimate supported by cost guides from independent sources or other federal agencies.	
7. Estimate based upon government wage rates and materials cost.	P, M, T
8. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Appendix III, Suppression Impacts and Noxious Weed Maps. Please refer to Vegetation Assessment, Appendix I.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
FWS	150	\$29,725
DOE	90	\$17,835
TOTAL COST	240	\$47,560

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	MONITOR FIRE EFFECTS TO SHRUB-STEPPE DEPENDENT AGENCY LISTED BIRD SPECIES	JURISDICTIONS:	FWS, DOE
PART E LINE ITEM:	N-1b Protection of T&E Species: Birds (Listed)	FISCAL YEAR (list each year):	2001, 2002, 2003

I. WORK TO BE DONE

- A. General Description:** Monitor fire effects to Agency listed species: Ferruginous hawk, burrowing owl, loggerhead shrike, sage sparrow, sage thrasher, western sage grouse and long-billed curlew by determining post fire presence, reproductive status and reproductive success.
- B. Location (Suitable) Sites:** Within the shrub-steppe vegetation type in and adjacent to the fire are, including all ALE and DOE lands (138,986 acres).
- C. Design/Construction Specification (number and describe each task):**
1. Monitor Ferruginous hawk nests during the breeding season. Observer should go to each known nest location twice to determine presence and reproductive success. First visit is early in the breeding season after nest building has occurred: Observe if nest is occupied. Second visit is just before fledging to determine if young are in the nest (and how many if possible). As soon as possible after fire, determine presence and possible nest success of all nests known to be occupied before the fire. Subsequent surveys would begin in spring 2001. Minimize disturbance to birds utilizing standard techniques. COST BREAKDOWN: ALL ON DOE
 2. Monitor 2 known burrowing owl burrows. Observer should go to each known burrow three times, to determine presence and reproductive success. First visit is early in the breeding season: Observe if burrow is occupied. Second visit is during first three weeks after hatch to determine number of young. Third visit is just before fledging to determine how many young are at the burrow. As soon as possible after fire, determine presence and possible nest success of all nests known to be occupied before the fire. Subsequent surveys would begin in spring 2001. Minimize disturbance to birds utilizing standard techniques. COST BREAKDOWN: ALL ON FWS
 3. Monitor loggerhead shrike, sage sparrow, sage thrasher, western sage grouse and long-billed curlew. Point Count survey method at 33 previously established locations, once per month, as described in Birds of Fitzner-Eberhardt Arid Lands Ecology Reserve, 1998. Survey protocol, locations and previously collected data are on file at the ALNWR Office. Begin as soon as fire is declared out and continue through September 30 with one visit per month to each transect. Begin March 1 and go through September 30 of 2000. Add up to 6 additional point count survey routes to the DOE portion of this monitoring area. COST BREAKDOWN: 33 ON ALE AND 6 ON DOE.
 4. Monitor sage grouse reproductive behavior by conducting aerial lek surveys. Fixed wing or helicopter reconnaissance of the fire area should be done once a week during February and March, beginning in 2001, per protocol developed by Yakima Training Center (on file at ALNWR Office). Compare results with existing known nesting locations. COST BREAKDOWN: ALL ON FWS.
 5. Monitor presence of loggerhead shrike, sage sparrow, sage thrasher, western sage grouse and long-billed curlew by conducting transect surveys twice a month. Transect survey method for 5 locations is described in Birds of Fitzner-Eberhardt Arid Lands Ecology Reserve, 1998. Survey protocol, locations and previously collected data are on file at the ALNWR Office. Begin as soon as fire is declared out and continue for one year, visiting each transect once per month. At end of year compare results with previous years data and determine if another year of this type of monitoring is necessary to determine fire effects to these species. Add 2 additional transects to the DOE portion of this monitoring area. COST BREAKDOWN: 5 ON FWS AND 2 ON DOE.
- D. Purpose of Treatment Specification:** Because ALE was declared a National Monument to preserve and protect native shrub-steppe habitats and associated species, it is necessary to determine the effect of the fire on these agency listed sensitive species. Because the fire caused effects to about 64,244 acres of previously high quality brush-steppe habitat (greater than 85% plant mortality), and because the surrounding areas are not managed to maintain shrub-steppe habitats, the ALE and adjacent areas may not be suitable habitat for these species for several years. All of the species are identified by state, federal and local biologists as being rare within the Columbia Basin due to their dependence on a habitat which was high quality at the Hanford Site before the fire (due to no agriculture or other uses for 50 years). Now this habitat has been severely decreased. Information on presence and reproductive success of these species will be very important to determine the need for potential future conservation measures. Substantial data on all of these species has been collected prior to the fire. Post fire monitoring data will be compared to current information and analyzed to determine changes in use patterns, species presence and abundance, and reproductive success. This information will be used to determine fire affects and, if needed, to develop management strategies for habitat and species recovery. After the first year of data has been collected, analyzed and compared to previous years' results, determine if there is a need to continue this work, revise this monitoring specification and submit a supplemental request for funding modification.

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
GS-9 @ \$16.56 per hour X 4 hours per week X 52 weeks per year to supervise project X 3 YEARS	\$10,332
TOTAL PERSONNEL SERVICE COST	\$10,332
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST (Personnel @ Rate X Round Tips X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
Ferruginous hawk nest surveys: 5@ 8 hour days (GS-9 wages) = \$662 + vehicle 60 miles per day @ \$.33 = \$19.80 + incidentals [binocs (400), spotting scope (400){ BINOCS AND SCOPE FIRST YEAR ONLY}, analysis supplies (50)] X 3 YEARS [NO SITES ON FWS, 12 SITES ON DOE]	\$2,995
Burrowing owl: 5 days @ 8 hour days (GS-9 wages) = \$662 + vehicle 60 miles per day @ \$.33 = \$19.80 + incidentals: [tape recorder (100) and taped vocalizations (20){ RECORDER AND TAPE FIRST YEAR ONLY} + analysis supplies (50)] X 3 YEARS [2 SITES ON DOE; NO SITES ON ALE]	\$2,315
Point counts: 10 days per month for 7 months @ 8 hour days (GS-9 wages) = \$9,274 + vehicle 60 miles per day @ 8 days per month @ \$.33 per mile = \$1,109 + incidentals [analysis supplies (50)] X 3 YEARS [\$802.54 PER SITE; 33 SITES ON FWS AND 6 ON ALE]	\$31,299
Monitor sage grouse reprod. behavior 1 day per week for 8 weeks (GS-9) = \$1,060 + airplane @ \$200 per hour X 3 hours per flight = \$4,800 + vehicle 20 miles per week @ \$.33 = \$53 + incidentals [analysis supplies \$50] X 3 YEARS [ALL ON ALE]	\$17,889
Transects: 4 days @ 8 hour days @ once per month (GS-9) = \$6,359 + vehicle 60 miles per day X 48 days @ \$.33 = \$950 + incidentals [analysis supplies \$50] X 3 YEARS [\$3,154 PER SITE; 5 SITES ON ALE AND 2 ON DOE]	\$22,077
TOTAL CONTRACT COST	\$76,575

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Survey	\$29,583	1	\$29,583	EFR, OP/O	C, P
FY 2	Survey	\$28,663	1	\$28,663	EFR, OP/O	C, P
FY 3	Survey	\$28,663	1	\$28,663	EFR, OP/O	C, P
TOTAL		\$86,908		\$86,906		\$86,908

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	P
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Appendix I, Wildlife Assessment.
See Appendix III, Pre-Fire Shrub-Steppe Habitat for Agency Listed Species Map.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
FWS	41 SURVEY SITES + SUPERVISOR	\$72,790
DOE	20 SURVEY SITES	\$14,118
TOTAL COST	61 SITES	\$86,908

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**U.S. DEPARTMENT OF THE INTERIOR
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PART F - SPECIFICATIONS

SPECIFICATION TITLE:	NOXIOUS WEED CONTROL	JURISDICTIONS:	DOE, FWS
PART E LINE ITEM:	N-2 Non-native Invasive Plant Control	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

<p>A. General Description: Control noxious weed infestations remaining within 24 Command fire area prior to seed-set and maturation. Current weed species observed include Rush skeleton weed, knapweed (diffuse, spotted, russian), kochia and canadian thistle. Utilize integrated pest management techniques (herbicides, biological, mechanical and cultural control methods) as appropriate to prevent the spread and establishment of noxious weeds within the fire area.</p> <p>B. Location (Suitable) Sites: Control all visible noxious weed populations along road systems within the fire area. Control sites identified include but are not limited to Rattlesnake Mountain roads, 1200 road, Rattlesnake Spring, Snively Canyon, 106, 117, and 118 gate roads. DOE control efforts should be conducted along all major road systems but in accordance with area closures and safety guidelines (see Appendix III, Noxious Weed Map).</p> <p>C. Design/Construction Specification (number and describe each task):</p> <p>1. Control noxious weeds as identified in USFWS and DOE monitoring surveys prior to seed set in accordance with guidelines contained within ALE and DOE management plans and approved Environmental Assessments.</p> <p>2. Follow-up control in subsequent years on all new infestation sites as identified through noxious weed monitoring surveys.</p> <p>D. Purpose of Treatment Specification: Protect the ecological integrity and site productivity of shrub-steppe plant communities within the ALE and DOE lands in accordance with established management plan guidelines.</p>
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II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST (Personnel @ Rate X Round Trips X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	

CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
FWS - Contract Weed Control 100 Acres @ \$85/Acre	\$8,500
DOE - Contract Weed Control- 50 Acres @ \$85/Acre	\$4,250
TOTAL CONTRACT COST	\$12,750

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Acres	\$85	150	\$12,750	EFR, OP/O	P, C
FY 2						
FY 3						
TOTAL	Acres	\$85	150	\$12,750	EFR, OP/O	P, C

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Appendix III, Noxious Weed Map. See Appendix I, Vegetation Assessment.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
FWS	100	\$8,500
DOE	50	\$4,250
TOTAL COST	150	\$12,750

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	SAGEBRUSH PLANTATION REPLACEMENT	JURISDICTIONS:	DOE, FWS
PART E LINE ITEM:	N-3a Ecological Stabilization - Sagebrush Plants	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

<p>A. General Description: Replace sagebrush plantations (<i>Artemisia spp.</i>) lost during backfire operations on the 24 Command fire to protect ecological integrity of ALE and DOE lands.</p> <p>B. Location (Suitable) Sites: Sagebrush plantations were established in 1998 and 1999 along the Rattlesnake spring and Snively Canyon Road areas within the Arid Lands Ecology Refuge (ALE). Backfire operations conducted along US Highway 240 to stop fire progression onto Hanford lands resulted in the total loss of sagebrush plantations. Re-establishment of these plantations is necessary to achieve habitat management objectives for T&E species.</p> <p>C. Design/Construction Specification (number and describe each task):</p> <ol style="list-style-type: none"> 1. Relocate boundaries of plantation sites. Utilize seed now in stock to grow container stock for outplanting in 2001 for the replacement of impacted plantations. 2. Establish photo monitoring plots within each planting site and GPS boundaries of planting locations. Supervise planting and provide maintenance support. 3. During the spring of 2002, conduct survival survey to determine success of outplantings. Determination of survival rate should be documented with findings incorporated into greenhouse growing operations, management guidelines for sage restoration, Agency protocols, and annual budget submissions. <p>D. Purpose of Treatment Specification: Protect the ecological integrity and site productivity of shrub-steppe plant communities within the ALE and DOE lands in accordance with established management plan guidelines. Comply with directives established in USFWS BAER policy for the protection if ecosystem health, T&E species and Native American cultural values.</p>
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II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
FWS- GS-11 Botanist/Vegetation Specialist x \$161/day x 6 weeks x 1 year (planting design, Biological oversight)	\$4,830
DOE- GS-11 Botanist/Vegetation Specialist x \$161/day x 6 weeks x 1 year (planting design, Biological oversight)	\$4,830
TOTAL PERSONNEL SERVICE COST	\$9,660
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
FWS- Sagebrush tubing stock @ \$.22/plant x 90,000 bare root plants	\$19,800
FWS- Sagebrush tubing stock @ \$.80/plant x 40,000 tublings	\$32,000
TOTAL MATERIALS AND SUPPLY COST	\$51,800

TRAVEL COST (Personnel @ Rate X Round Tips X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
FWS- Contract Planting Cost 65,000 plants x .45/plant	\$29,250
DOE- Contract Planting Cost 65,000 plants x .45/plant	\$29,250
TOTAL CONTRACT COST	\$58,500

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Plants	\$.92	130,000	\$119,960	EFR, OP/O	C, P
FY 2						
FY 3						
TOTAL	Plants	\$.92	130,000	\$119,960	EFR, OP/O	C, P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	P, M, C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: Appendix III- Fire Suppression Impacts Map.
 Please refer to Vegetation Assessment (Appendix I) for backfire operations description.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
FWS	93,348	\$85,880
DOE	36,652	\$34,080
TOTAL COST	130,000	\$119,960

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	SAGEBRUSH OUTPLANTING	JURISDICTIONS:	FWS
PART E LINE ITEM:	N-3b Ecological Stabilization - Sagebrush Outplanting	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

<p>A. General Description: In the fall of 2000, plant 80,000 sagebrush (<i>Artemisia spp.</i>) seedlings within the fire area to rehabilitate impacted shrub-steppe plant communities that serve as critical habitat for T&E species.</p> <p>B. Location (Suitable) Sites: Planting sites will be selected within the Arid Lands Ecology Refuge and DOE lands in historic sagebrush plant community sites. Planting sites will be chosen based upon habitat recovery needs, soil productivity, moisture regimes, and other native plant species post-fire recovery.</p> <p>C. Design/Construction Specification (number and describe each task):</p> <ol style="list-style-type: none"> 1. Select planting locations in accordance with guidelines contained within ALE and DOE management plans and approved Environmental Assessments. 2. Establish photo monitoring plots within each planting site and GPS boundaries of planting locations. Supervise planting and provide maintenance support. 3. During the spring of 2001, conduct survival survey to determine success of outplantings. Determination of survival rate should be documented with findings incorporated into greenhouse growing operations, management guidelines for sage restoration, Agency protocols, and annual budget submissions. <p>D. Purpose of Treatment Specification: Protect and restore the ecological integrity and site productivity of shrub-steppe sagebrush plant communities within the ALE and DOE lands in accordance with established management plan guidelines.</p>
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II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
GS-11 Botanist/Vegetation Specialist x \$166/day x 6 weeks x 1 year	\$4,980
TOTAL PERSONNEL SERVICE COST	\$4,980
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
Terra-Sorg GB, flagging, containers, hoses, truck rentals	\$3,000
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	\$3,000
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
80,000 tubling seedlings @ \$.70/plant	\$56,000
TOTAL MATERIALS AND SUPPLY COST	\$56,000
TRAVEL COST (Personnel @ Rate X Round Trips X Fiscal Years = Cost/Item):	COST/ITEM
GOV- 100 miles per day x 30 days x .33/mile x 1 year	\$990
TOTAL TRAVEL COST	\$990

CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
Planters- 80,000 plants x .55/plant	\$44,000
TOTAL CONTRACT COST	\$44,000

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Acres	\$264.85	200	\$108,970	EFR	C,P
FY 2						
FY 3						
TOTAL	Acres	\$264.85	200	\$108,970	EFR	C, P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	P, T
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: Appendix III- Vegetation Map. Please refer to Vegetation Assessment (Appendix I) for complete justification.
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IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
FWS	200	\$108,970
TOTAL COST	200	\$108,970

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	NATIVE SPECIES SEED COLLECTION AND PROCESSING	JURISDICTIONS:	DOE, FWS
PART E LINE ITEM:	N-3c Ecological Stabilization - Seed Collection	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

<p>A. General Description: Collect native seed from shrub-steppe plant communities remaining within the proximity of the 24 Command fire for the establishment of rehabilitation plant materials for rehabilitation treatments on suppression related impacts(backfire areas and dozer/fireline rehabilitation).</p> <p>B. Location (Suitable) Sites: Collect seed from native sagebrush, bitterbrush, bunchgrass and greasewood populations for the establishment of nursery stock for rehabilitation efforts within the 24 Command fire area. Collection sites may be within Hanford, Ale, or adjacent project lands.</p> <p>C. Design/Construction Specification (number and describe each task):</p> <ol style="list-style-type: none"> 1. Identify collection sites within the project area for native seed collection. 2. Develop collection protocols to ensure genetic quality and the protection of collection sites from over-harvest. 3. Collect adequate seed in CY00 to meet long-term rehabilitation needs in years 2000-2002. 4. Process and clean collected seed to obtain useable material for nursery growing operations. <p>D. Purpose of Treatment Specification: Protect the ecological integrity and site productivity of shrub-steppe plant communities within the ALE and DOE lands in accordance with established management plan guidelines. Comply with directives established in USFWS BAER policy for the protection if ecosystem health, T&E species and Native American cultural values.</p>

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
FWS- GS-11 Botanist/Vegetation Specialist x \$161/day x 6 weeks x 1 year (species collection, Biological oversight)	\$4,830
DOE- GS-11 Botanist/Vegetation Specialist x \$161/day x 6 weeks x 1 year (species collection, Biological oversight)	\$4,830
TOTAL PERSONNEL SERVICE COST	\$9,660
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	

TRAVEL COST (Personnel @ Rate X Round Tips X Fiscal Years = Cost/Item):	COST/ITEM
FWS- 100 Miles per day x 30 days x \$.33/mile	\$990
DOE- 100 Miles per day x 30 days x \$.33/mile	\$990
TOTAL TRAVEL COST	\$1,980
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
FWS- Seed Cleaning Costs (to produce 7 pounds of clean seed for 1600 Ac.)- 80 Hours x \$25/Hour	\$2,000
TOTAL CONTRACT COST	\$2,000

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Acres	\$8.52	1,600	\$13,640	EFR, OP/O	C, P
FY 2						
FY 3						
TOTAL	Acres	\$8.52	1,600	\$13,640	EFR, OP/O	C, P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	P, T
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Appendix III, Fire Suppression Impacts Map. Please refer to Vegetation Assessment for backfire operations description, Appendix I.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
FWS	800	\$6,820
DOE	800	\$6,820
TOTAL COST	1,600	\$13,640

**U.S. DEPARTMENT OF THE INTERIOR
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PART F - SPECIFICATIONS

SPECIFICATION TITLE:	BAER IMPLEMENTATION LEADER & ADMINISTRATIVE SUPPORT	JURISDICTIONS:	DOE, FWS
PART E LINE ITEM:	O-1 Implementation Leader	FISCAL YEAR (list each year):	2000-2001

I. WORK TO BE DONE

A. General Description:	Hire a project implementation leader and administrative support position to coordinate and oversee the implementation of the 24 Command Fire BAER Plan on both U.S. Department of Energy and U.S. Fish and Wildlife Service administered lands. This specification provides funding for one year. A supplemental funding request to extend the position can be submitted after one year if necessary.
B. Location (Suitable) Sites:	Treatment areas are distributed throughout the burned area. Duty station will be at the local headquarters for the agencies in Richland, Washington.
C. Design/Construction Specification (number and describe each task):	The Project Implementation Leader is responsible for the over-site of the BAER Plan implementation for the jurisdictions for which they were hired. The Leader will coordinate with each of the involved agencies on cross jurisdictional projects to achieve efficient use of funds, personnel, equipment, and contracts. The Leader specifically will oversee implementation, monitoring, program review, proposed plan revisions, and supplemental funding requests. The Leader completes annual accomplishment reports. The administrative support position will assist implementation leader and tracks EFR budgets.
D. Purpose of Treatment Specification:	The purpose is to provide quality control over project implementation and to ensure a comprehensive plan implementation.

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
GS-11 @ \$39,178 / year X 1 year	\$41,634
GS-7 @ \$22,560 / year X 1 year	\$28,266
TOTAL PERSONNEL SERVICE COST	\$69,900
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
½ Ton GSA Pickup Rental	\$5,000
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	\$5,000
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
Administrative materials	\$2,500
TOTAL MATERIALS AND SUPPLY COST	\$2,500
TRAVEL COST (Personnel @ Rate X Round Trips X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Project	\$77,400	1	\$77,400	EFR, OP/O	P
FY 2						
FY 3						
TOTAL	Project	\$77,400	1	\$77,400	EFR, OP/O	P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	M
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	P
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report:
 See Executive Summary

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
DOE	1	\$38,700
FWS	1	\$38,700
TOTAL	2	\$77,400

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	FOLLOW-UP BAER TEAM CONSULTATION	JURISDICTIONS:	FWS
PART E LINE ITEM:	O-2 BAER Team Consultations	FISCAL YEAR (list each year):	2001

I. WORK TO BE DONE

A. General Description: This specification will provide funding for costs associated with additional BAER Team consultations during implementation of the 24 Command Fire.
B. Location (Suitable) Sites: Travel from home units to the Arid Lands National Wildlife Refuge Complex, Richland, Washington.
C. Design/Construction Specification (number and describe each task): Fund round trip travel costs for three BAER Team members from home units to the Arid Lands National Wildlife Refuge Complex during fiscal years 2001 or 2002.
D. Purpose of Treatment Specification: Local agency staff may require additional advise and technical support during the three year implementation period for the 24 Command Fire BAER Plan. The specification will provide the funds for this consultation.

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
GS-12 @ \$26.00 / hour X 40 hours X 3 individuals =	\$3,120
TOTAL PERSONNEL SERVICE COST	\$3,120
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST (Personnel @ Rate X Round Trips X Fiscal Yars = Cost/Item):	COST/ITEM
Round Trip Travel costs @ \$1,000 X 3 trips =	\$3,000
TOTAL TRAVEL COST	\$3,000
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1						
FY 2	Trip	\$6,120	1	\$6,120	EFR	P
FY 3						
TOTAL	Trip	\$6,120	1	\$6,120	EFR	P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	T
4. Estimate based upon government wage rates and materials cost.	
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report:
 See Executive Summary

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
FWS	3 Round Trips (personnel & travel cost)	\$6,120
TOTAL COST	3 Round Trips (personnel & travel cost)	\$6,120

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	LAW ENFORCEMENT MONITORING OF CULTURAL RESOURCES EXPOSED BY FIRE	JURISDICTIONS:	FWS
PART E LINE ITEM:	S-1a Public Safety: Protect Cultural Resources	FISCAL YEAR (list each year):	2000, 2001

I. WORK TO BE DONE

A. General Description:	Patrol selected historic and prehistoric archaeological sites and localities to monitor site looting and vandalism. Take action on artifact collectors and looters.
B. Location (Suitable) Sites:	Sensitive cultural resource locations are exempt from disclosure under the Freedom of Information Act. Site locations will be maintained by the appropriate jurisdictions and the law enforcement officers.
C. Design/Construction Specification (number and describe each task):	<ol style="list-style-type: none"> 1. Coordinate law enforcement patrols and actions with Agency archaeologists and cultural resource personnel. 2. Undertake random patrols, make contact as appropriate, and take action against violators. 3. Consult with Tribal governments and cultural resource programs regarding law enforcement patrols.
D. Purpose of Treatment Specification:	To protect exposed sensitive historic and prehistoric cultural resources and deter looters. This will be a temporary measure until sufficient green-up occurs to conceal some cultural materials, and until field inventory and assessment work is completed.

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
GS 9 LEO @ \$225 per day for 40 days	\$9,000
TOTAL PERSONNEL SERVICE COST	\$9,000
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST (Personnel @ Rate X Round Trips X Fiscal Years = Cost/Item):	COST/ITEM
FOR of \$300/mo for 2 months	\$600
Mileage at \$.35/mile @ 10,000 miles	\$3,500
TOTAL TRAVEL COST	\$4,100

CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Acre	\$.14	76,406	\$10,480	EFR	P
FY 2	Acre	\$.03	76,406	\$2,620	EFR	P
FY 3						
TOTAL		\$.17		\$13,100		

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	P, T
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Appendix I, Cultural Resource Assessment.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
FWS	76,406	\$13,100
TOTAL COST	76,406	\$13,100

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	INSTALL DRIFT FENCING	JURISDICTIONS:	DOE
PART E LINE ITEM:	S-1b Public Safety: Drift Fencing	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

<p>A. General Description: Purchase and install drift fences along Route 4 South and Route 2 South on DOE lands to prevent sand from accumulating on the roadways as a result of increased sand movement caused by the 24 Command Fire.</p> <p>B. Location (Suitable) Sites: Along the southwest side of Route 4 South from the Wye Barricade eight miles to the northwest and along the west side of Route 2 South from the Wye Barricade one mile south. See attached map.</p> <p>C. Design/Construction Specification (number and describe each task):</p> <p>1. Install drift fences as per WaDOT standards.</p> <p>D. Purpose of Treatment Specification: To prevent sand from accumulating on the roadways causing a potential public safety hazard.</p>
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II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
950 rolls (50' rolls) of drift fence @ \$60	\$57,000
TOTAL MATERIALS AND SUPPLY COST	\$57,000
TRAVEL COST (Personnel @ Rate X Round Trips X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
Installation of drift fence	\$8,550
TOTAL CONTRACT COST	\$8,550

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Mile	\$7,283.33	9	\$65,550	OP/O	C
FY 2						
FY 3						
TOTAL	Mile	\$7,283.33	9	\$65,550	OP/O	C

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Appendix I, Soil and Watershed Assessment. See attached location map.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
DOE	9	\$65,550
TOTAL COST	9	\$65,550

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	MITIGATE MINE SHAFT HAZARD WITH SAFETY FENCE AND HAZARD SIGN	JURISDICTIONS:	FWS
PART E LINE ITEM:	S-1c Public Safety: Ground Hazards	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

A. General Description:	During reconnaissance flights BAER staff observed an open shaft in the vicinity of the fire origin and two cone shaped concrete hole openings at the NIKE Missile site. The open shaft is six feet by six feet square, and is 15 to 20 feet deep the 2 concrete holes are six feet in diameter and twenty feet deep . The reduction in vegetative cover associated with the fire has made these hazzards more visible. FWS staff and agency researchers accessing the burned area will be exposed to falling hazards due to these openings. The shaft should be made safe by the application of a wire fence and warning signs. Fencing is not a long term solution to the mine safety issue at this mine site. Following biological and cultural resource assessments, a long term solution like back-filling, or the application of a Polyurethane Foam plug should be considered by staff.
B. Location (Suitable) Sites:	The shaft is located in Township 12 north, Range 24 east, section #2. The site is located approximate at Universal Transverse Mercator 5.158.713 north, 287.943 east, zone 11. The two concrete holes are located near the NIKE Missile site (see the suppression impacts maps)
C. Design/Construction Specification (number and describe each task):	Install four sided fence around the openings with warning signs using "T" posts and one role of smooth wire.
D. Purpose of Treatment Specification:	Specification is intended to protect FWS staff and researchers from falling hazzards.

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
GS-5@ \$125/day X one person X three days X 1 =	\$375
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
T-posts @ \$4 per post X 12 X 1	\$48
Hazard signs @ \$10 per sign X 12 X 1	\$120
Smooth wire @ \$60 per role X two rolls X 1	\$120
TOTAL MATERIALS AND SUPPLY COST	\$288
TRAVEL COST (Personnel @ Rate X Round Tips X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	

CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Fence	\$221	3	\$663	EFR	P
FY 2						
FY 3						
TOTAL	Fence	\$221	3	\$663	EFR	P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	M
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	P
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Operations Assessment, Appendix I.
 See fire suppression impacts map, Appendix III.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
FWS	3	\$663
TOTAL COST	3	\$663

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**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	MONITOR ELK TO DETERMINE FIRE EFFECTS	JURISDICTIONS:	FWS
PART E LINE ITEM:	S-1d Public Safety: Elk Monitoring	FISCAL YEAR (list each year):	2000, 2001

I. WORK TO BE DONE

- A. General Description:** Monitor locations and movement patterns of elk to determine habitat use within and adjacent to the fire area, and locations of road crossings.
- B. Location (Suitable) Sites:** Within and adjacent to the fire area. Sites to be determined by Elk Monitoring Project Leader.
- C. Design/Construction Specification (number and describe each task):**
1. Design statistically robust sampling scheme to determine elk habitat use and movement patterns.
 2. Track radio collared elk (25 animals) two times a week for the next 12 months, beginning immediately. Decrease sampling intensity to once per week as vegetation grows during the rainy season to reflect expectation of less movement after forage becomes more readily available. Once per week would be aerial (addresses issue of access to private land); once per week would be ground, 8 hour search. Need to continue for full seasonal cycle to determine if/when elk return to normal use patterns as documented in previously conducted monitoring project. Would then determine if additional years are needed and submit supplemental requests for funding.
 3. Observe elk movement across highway corridors at strategic locations (to be determined by project leader during first few weeks of project) during dawn and dusk 4 times a week for the first 4 months. 2 hours per each monitoring period; 4 hours total per day; monitoring period would be one hour before sunrise to one hour after and one hour before sunset to one hour after. This sampling intensity can be decreased if it is determined that elk movement patterns across the highways have been well enough documented. This portion of the monitoring may not be needed in the second and third years.
 4. Actions that might be taken as a result of the monitoring: Data collected will be assessed and compared with previous years data, as well as with literature available on similar situations elsewhere in elk range. This information will then be added to the elk management plan which is currently being developed. Potential agency actions might include (per discussions with various agency reps as listed in BAER Wildlife Report): Install offsite water troughs outside of key riparian areas, removal of elk, fencing of riparian area, pay dividends to private land owners, supplemental feeding of elk on State lands: drift fences along highways at Elk crossings to redirect to less critical sites; Elk fencing around sensitive DOE facilities.
- D. Purpose of Treatment Specification:** To determine changes in elk distribution within and adjacent to the fire area because of: 1) Public safety - frequency of deer & elk crossing Hwy 240 and 225 is expected to increase due to loss of forage within the fire area; motorists should be kept informed to minimize risk. 2) Private landowner concern that elk degradation of economically important agricultural crops may increase due to the fire. 3) Potential for elk to affect fragile natural resources on the ALE including cryptogamic crust, riparian areas and recovering brush species. 4) Tribal concern that elk may cause impacts to culturally significant sites and plants within and adjacent to the fire area.
- Monitoring results would be compared with existing pre-fire data and analyzed to develop management strategies which address anticipated effects to these various resources. Substantial data on elk and deer herds in this area has been collected since 1983.
- NOTE: Costs are not divided by agency because it would be inefficient to separate monitoring work on a species which ignores administrative boundaries. In addition, it is not known at this time if the elk use patterns will cause them to be found more frequently on ALE or DOE lands. It is thought that the existing MOU between ALE and DOE will suffice to allow for this monitoring to go forth as a single project, funded by EFR.

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
GS-9 @ 16.56 per hour X 40 hours per week x one year	\$34,575
GS-11 @ \$20.04 per hour X 4 hours per week X one year plus first year develop sampling scheme 2 weeks (\$1,603	\$5,771
TOTAL PERSONNEL SERVICE COST	\$40,346
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
GSA rig for half of year, including gas	\$2,000
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	\$2,000
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
binoculars ALL OF THESE ARE FIRST YEAR EXPENSES ONLY	\$400
flight suit	\$80
flight helmet	\$200
transceiver	\$500
antennae	\$100
TOTAL MATERIALS AND SUPPLY COST	\$1,280
TRAVEL COST (Personnel @ Rate X Round Trips X Fiscal Years = Cost/Item):	COST/ITEM
none; no travel off site. Travel to work location included in personnel time above.	
TOTAL TRAVEL COST	
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
Airplane and pilot @ \$200 per hour x 3 hours per week for 52 weeks	\$31,200
TOTAL CONTRACT COST	\$31,200

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	month	\$6,236	3	\$18,708	EFR	p
FY 2	month	\$6,236	9	\$56,124	EFR	P
TOTAL			12	\$74,826		

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	C, T
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	P, M
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Appendix I, Wildlife Assessment

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
FWS	12	\$74,826
TOTAL COST		\$74,826

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**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	REPLACE DOE NO TRESPASS SIGNS	JURISDICTIONS:	DOE
PART E LINE ITEM:	S-2a Road, Trail, and Safety Signs - DOE	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

A. General Description: Replace plastic no trespass signs on boundary fence to keep public out of restricted DOE properties. Areas are closed for public safety and security.
B. Location (Suitable) Sites: Boundary fence along public access roads within the burned area.
C. Design/Construction Specification (number and describe each task): Attach replacement signs to existing fence line at 1/8 of mile interval. Signs are standard DOE No Trespassing Sign to be ordered through existing DOE vendor.
D. Purpose of Treatment Specification: To keep public out of secured areas for public safety.

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
GS-5 @ \$11,50 / hour X 40 hours X 2 positions =	\$920
TOTAL PERSONNEL SERVICE COST	\$920
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
1,200 signs @ \$2.60 / each =	\$3,120
TOTAL MATERIALS AND SUPPLY COST	\$3,120
TRAVEL COST (Personnel @ Rate X Round Tips X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Sign	\$3.67	1,200	\$4,040	F	P
FY 2						
FY 3						
TOTAL	Sign	\$3.67	1,200	\$4,040		

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	P, M
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: Contact Mark Farver (509) 373-0945 with DOE to coordinate this treatment.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
DOE	1,200 signs	\$4,040
TOTAL COST	1,200 signs	\$4,040

**U.S. DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	ELK HAZARD WARNING SIGNS	JURISDICTIONS:	DOE
PART E LINE ITEM:	S-2b Road, Trail and Safety Signs - Elk	FISCAL YEAR (list each year):	2000

I. WORK TO BE DONE

A. General Description: Construct and install elk crossing signs at locations with increased elk activity along highways 240 and 225 as a result of the 24 Command Fire.
B. Location (Suitable) Sites: Four new signs (in addition to the ones that are already in service) will be placed along highway 240, and two new signs will be placed along highway 225 within and on the edges of the anticipated migration areas of the elk as they roam within and outside of the burn area crossing roads and highways in or near the burn area.
C. Design/Construction Specification (number and describe each task): 1. Signs will be 36" diamond shaped, reflective, black on yellow, with a picture of an elk on them. WaDOT refers to these signs as W11-3. Signs will be produced and installed by WaDOT.
D. Purpose of Treatment Specification: To provide warning to motorists about potential public safety hazards caused by elk crossing roads.

II. LABOR, MATERIALS AND OTHER COST

PERSONAL SERVICES (Grade @ Cost/Hour x # Hours X Fiscal Years = Cost/Item): (Do not include contract personnel costs here - see contract services below).	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE OR RENTAL (Item @ Cost/Hour or Day X # Hours or Days X # Fiscal Years = Cost/Item): (Note: Purchase requires written justification that demonstrates cost benefits over lease or rental).	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE, OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST (Personnel @ Rate X Round Trips X Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST (Labor, Equipment, and Travel @ Cost/Hour X # Hours X Fiscal Years = Cost Item):	COST/ITEM
6 elk crossing warning signs @ \$300 each =	\$1,800
TOTAL CONTRACT COST	\$1,800

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Sign	\$300	6	\$1,800	EFR	C
FY 2						
FY 3						
TOTAL	Sign	\$300	6	\$1,800	EFR	C

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP/O = Agency Operating/Other
EWP = Emergency Watershed Protection

METHODS FOR COMPLETION:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2 - 3 independent contractual sources	
2. Documented cost figures from similar project work obtained from local agency sources.	M, C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimate based upon government wage rates and materials cost.	
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services **M** = Materials/Supplies **T** = Travel **C** = Contract **F** = Suppression

III. RELEVANT DETAILS, MAPS, AND DOCUMENTATION INCLUDED IN REPORT

List relevant documentation and cross-references within BAER Report: See Appendix I, Watershed Assessment.

IV. TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
DOE	6	\$1,800
TOTAL COST	6	\$1,800